



100% PRACTICAL | REALTIME PROJECTS
JOB ASSISTANCE | 1:1 MENTORSHIP

SQL DBA with AZURE

Learn. Practice. Build Your Career in Cloud.

- ✓ SQL Server Administration
- ✓ Database Design & Optimization
- ✓ Backup, Recovery & High Availability
- ✓ Azure SQL Database & Managed Instance
- ✓ Security, Monitoring & Performance Tuning
- ✓ Real-time Projects & Interview Preparation

 Azure SQL Database
 Azure SQL Managed Instance
 Azure Synapse Analytics
 Azure Data Lake Storage
 Azure Data Factory

 20+ YEARS OF TRUST
 HIGH DEMAND CAREER
 1:1 LIVE MENTORSHIP
 CERTIFICATION GUIDANCE
 JOB ASSISTANCE & MOCK INTERVIEWS

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Become a SQL DBA with Azure & AI

Modern organizations depend on highly available, secure, and high-performance databases to power their business applications. As businesses migrate to Microsoft Azure, the demand for skilled SQL Database Administrators with cloud expertise continues to grow.

This comprehensive training program is designed to transform beginners and working professionals into industry-ready **SQL DBAs with Azure Cloud expertise**. The course combines SQL Server Administration, Azure SQL Database, High Availability & Disaster Recovery, Performance Tuning, Database Security, Cloud Migration, AI-powered administration, and real-time enterprise projects.

What You'll Learn

- SQL Server Database Administration
- Azure SQL Database Administration
- Database Backup & Recovery
- Performance Tuning & Optimization
- High Availability & Disaster Recovery
- Database Security & Compliance
- Azure Cloud Migrations
- Real-time Enterprise Projects
- DP-300 Certification Preparation

Training Highlights

- ✓ 100% Practical Hands-on Sessions
- ✓ Daily Assignments & Practice Exercises
- ✓ Real-Time Production Scenarios
- ✓ End-to-End Database Administration Projects
- ✓ Azure SQL Database & Cloud Administration

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- ✓ Performance Tuning & Troubleshooting
- ✓ Backup, Restore & Disaster Recovery
- ✓ High Availability (Replication, Log Shipping, Always On)
- ✓ Security, Auditing & Compliance
- ✓ AI & Microsoft Copilot Integration
- ✓ Resume Building & LinkedIn Optimization
- ✓ Mock Interviews with MNC Interview Questions
- ✓ DP-300 Certification Guidance
- ✓ Lifetime Career Support

Who Should Join?

- SQL Developers
- Infrastructure Engineers
- IT Support Professionals
- DevOps Engineers
- Freshers aspiring to become DBAs
- Working professionals looking to transition into Cloud Database Administration

Career Opportunities

After completing this course, you can apply for roles such as:

- SQL Database Administrator
- Azure SQL DBA
- Production DBA
- Database Reliability Engineer
- Database Migration Specialist
- Database Performance Engineer

SQL DBA

TRAINING PLANS

This SQL DBA course has **TWO Training Plans.**

Choose your preferred plan:



 TRAINING PLAN	 MODULES INCLUDED	 DURATION	 NUMBER OF PROJECTS
A PLAN A	1. Database, MSSQL Concepts 2. Core SQL DBA Concepts 3. Realtime Project 1	 5 Weeks	 1 Realtime Project
B PLAN B	1. Database, MSSQL Concepts 2. Core SQL DBA Concepts 3. Realtime Project 1 4. Azure SQL DBA with AI 5. Realtime Project 2 6. DP-300 Exam Guidance	 9 Weeks	 2 Realtime Projects

 **100% PRACTICAL**

 **1:1 MENTORSHIP**

 **JOB ASSISTANCE**

 **REALTIME PROJECTS**

 **CERTIFICATION GUIDANCE**

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Detailed Course Content 🎧

This detailed content with 100% Hands-On, Daily Assignments make you 100% Job ready !

Module 1: Database & SQL Concepts

Ch 1: SQL Database Job Roles

- ✓ Introduction to Databases
- ✓ DBA Job Roles
- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ SQL DBA Job Scope, Job Growth

Ch 2: Database Intro & Installations

- ✓ Database Intro & Types (OLTP, DWH, ..)
- ✓ DBMS Concepts
- ✓ SQL Server 2025 Installations
- ✓ SSMS Tool Installation
- ✓ Server Connections, Authentications
- ✓ Installation Issues, Solutions

Ch 3: SQL Basics

- ✓ SSMS Tool Usage
- ✓ SQL Basics
- ✓ DDL: Create, Alter, Drop
- ✓ DML: Insert, Update, Delete
- ✓ SELECT
- ✓ Excel Imports

Ch 4: Constraints, Keys & RDBMS

- ✓ Unique, Primary Key Constraints
- ✓ Foreign Key & References
- ✓ Default, Check Constraints
- ✓ Normal Forms

Ch 5: Joins & Audits

- ✓ Joins: Table Comparisons
- ✓ Inner Joins & Matching Data
- ✓ Outer Joins: LEFT, RIGHT
- ✓ Full Outer Joins & Aliases
- ✓ Cross Join & Table Combination

Ch 6: Database Objects

- ✓ Views: Realtime Usage
- ✓ DML, SELECT with Views
- ✓ Stored Procedures: Realtime Use
- ✓ System Stored Procedures
- ✓ Inline & Multiline Functions

Ch 7: Linked Servers

- ✓ SQL Server Instances
- ✓ Linked Server : Creation
- ✓ Linked Server : Testing
- ✓ Realtime Usage @ DBA
- ✓ Remote DB Access

Ch 8: Server Architecture

- ✓ Database Engine Components
- ✓ Parser, Compiler & Optimizer
- ✓ Protocols and Query Processing
- ✓ MDAC and CLR Components
- ✓ Memory Manager & IO Managers
- ✓ SQL OS Components, MDAC

Ch 9: DB Architecture (VLDB)

- ✓ Planning Large Databases
- ✓ Filegroups, Spacing and Sizing
- ✓ Log File: Usage and Precautions
- ✓ Pages and Extents for Storage
- ✓ VLF, MiniLSN & Checkpoint

Module 2: Core SQL DBA Concepts

Ch 10: Backups

- ✓ Database Backups & Types
- ✓ DB, Filegroup, File Backups
- ✓ Copy Only Backups, Usage
- ✓ Partial Backups, Split Backups
- ✓ Mirror Backups
- ✓ Backup Verifications
- ✓ Checksum, ContinueOnError

Ch 11: Restores

- ✓ DB, Filegroups, File Restores
- ✓ GUI Restores: Limitations
- ✓ Restoring & Online States
- ✓ FILELISTONLY
- ✓ MOVE Options with Restores
- ✓ Standby Mode Restores
- ✓ Point-In-Time (PITR) Restores

Ch 12: Jobs, Maintenance & DB Mail

- ✓ SQL Server Agent Service
- ✓ Job Steps & Schedules
- ✓ DB Maintenance Plans
- ✓ Backup Maintenance
- ✓ Common Errors, Solutions

- ✓ SMTP, Email Profile
- ✓ Alert System : Agent Settings
- ✓ Operators, Job Notifications

Ch 13: Security Management

- ✓ Security Objects, Logins
- ✓ Users, Roles & Principals
- ✓ Schema Level Security
- ✓ Object, Column Level Security
- ✓ Security Audit, Logon Failures
- ✓ Keys & Certificates
- ✓ Encryptions & Data Security

Ch 14: DB Migrations

- ✓ Creating Credentials
- ✓ Creating SSIS Proxies
- ✓ Creating CDW Packages
- ✓ Database Detach – Attach
- ✓ SMO Migration Method
- ✓ DB Migration Schedules
- ✓ Detect, Fix Orphan Users

Ch 15: Tuning: Audits, AM Tool

- ✓ Activity Monitor Tool
- ✓ Perfmon Tool & Counters
- ✓ Query Audits: DMVs, DMFs
- ✓ Plan Handle, Execution Time
- ✓ Long Running Queries
- ✓ Query Store & Data Flush

Ch 16: Tuning: Indexes

- ✓ Indexes : Sort Locations
- ✓ Clustered & Online Indexes
- ✓ Non Clustered, Column Store
- ✓ Included Indexes in Realtime
- ✓ Filtered Indexes & Usage
- ✓ Covering Index & Selectivity
- ✓ Indexed Views (Materialized)

Ch 17: Tuning: Partitions

- ✓ Partitions: Performance Tuning
- ✓ Partition Functions & Schemes
- ✓ Partition Un-partitioned Tables
- ✓ Compressions: ROW, PAGE
- ✓ Partitions Limitations in OLTP
- ✓ Partitions with DWH

Ch 18: Statistics & Tuning

- ✓ Statistics: Realtime Usage
- ✓ Index & Column Statistics
- ✓ Statistics & Key Purpose
- ✓ Statistics Versus Indexes
- ✓ Stats Updates on Tables
- ✓ Stats Updates on Views

Ch 19: Index Management

- ✓ Index Management Options
- ✓ Index Rebuilds, Re-Organize
- ✓ Database Maintenance Plans
- ✓ Page Count and DOP
- ✓ Resumable & Online Indexes
- ✓ PAUSE, RESUME in Rebuilds

Ch 20: Tuning Tools

- ✓ Tuning Tools: Workload Files
- ✓ Profiler Tuning, Events
- ✓ DTA, Profiler Options
- ✓ Physical Design Structures
- ✓ PDS Recommendations
- ✓ Query Execution Cache
- ✓ Tuning Tools: Precautions

Ch 21: Execution Plans

- ✓ Execution Plan Analysis
- ✓ IO Cost and CPU Cost
- ✓ SubTree & Operator Cost
- ✓ NUMA Nodes, Processor Affinity
- ✓ Thread Count, DOP
- ✓ CTEs & Tuning

Ch 22: Lock Management

- ✓ Open Transactions in Realtime
- ✓ Open Transaction, Blocking
- ✓ LOCKS: Types & Audits
- ✓ S, X, IX, U and MD Locks
- ✓ Sch-M and Sch-S Locks
- ✓ SP_WHO2, SP_LOCK
- ✓ sysprocesses & Lock Waits

Ch 23: Isolation Levels

- ✓ Lock Hints and Isolation Levels
- ✓ Read Committed, Uncommitted
- ✓ Serializable, Repeatable Read
- ✓ Snapshot Isolation, Versioning
- ✓ Read Committed Snapshot

- ✓ sysprocesses & sp_who2
- ✓ Choosing Correct Isolation Level

Ch 24: Deadlocks, LIVE Locks

- ✓ Deadlocks in Real-world
- ✓ Profiler Tool & Deadlocks
- ✓ Lock Management: Deadlocks
- ✓ Deadlock Graphs & Events
- ✓ Deadlock Avoidance, Prevention
- ✓ Deadlock Prevention
- ✓ sysprocesses & sp_who2

Ch 25: Recovery Models

- ✓ Recovery Models
- ✓ Database Properties
- ✓ Full Recovery Model
- ✓ Simple & Bulk Logged
- ✓ Realtime Uses
- ✓ Backups Versus Recovery Models

Ch 26: HA DR @ Replication - 1

- ✓ Replication : Realtime Usage
- ✓ Distributor Configurations
- ✓ Publisher and Subscriber
- ✓ Replication Types: Snapshot
- ✓ Transactional Replication
- ✓ Log Reader Agent & Usage
- ✓ Replication Monitor, Alerts

Ch 27: HA DR @ Replication - 2

- ✓ Merge Replication & Usage
- ✓ Peer – Peer Replication
- ✓ Push & Pull Subscriptions
- ✓ Conflict Detection, Avoidance
- ✓ Scripting Replication Agents
- ✓ Limitations with Replication
- ✓ Common Errors, Solutions

Ch 28: HA DR @ Log Shipping

- ✓ Log Shipping Configurations
- ✓ Primary, Secondary Servers
- ✓ Working with Network Shares
- ✓ Jobs: Backup, Copy, Restore
- ✓ NORECOVERY, STANDBY
- ✓ Manual Failover Process
- ✓ Common Errors, Solutions

Ch 29: HA DR @ DB Mirroring

- ✓ Database Mirroring Concepts
- ✓ Configuring Principal, Mirror
- ✓ Configure Witness, EndPoint
- ✓ Synchronous, Asynchronous
- ✓ Automated Failover Process
- ✓ Manual Failover, Monitoring
- ✓ Common Errors, Solutions

Ch 30: DB Health Checks, Repairs

- ✓ DBCC Commands in Realtime
- ✓ DBCC for Audits, Repairs
- ✓ MSDB Suspect Pages
- ✓ User Database Repairs
- ✓ Single User Mode
- ✓ Emergency Mode
- ✓ Recovery & Restoring Modes

Ch 31: Issues & Solutions

- ✓ Log Space Issues, Solutions
- ✓ TempDB Issues, Solutions
- ✓ Memory Issues, Solutions
- ✓ Health Check Strategies
- ✓ Healthy Backups
- ✓ Maintenance Plans
- ✓ Database States

Ch 32: Updates & Upgrades

- ✓ Pre-Maintenance Checklist
- ✓ Updates Process
- ✓ Upgrades Process (In-Place)
- ✓ Cautions & Maintenance
- ✓ Rollbacks

Ch 33: System DB Rebuilds, DAC

- ✓ Command Line Installations
- ✓ System DB Rebuilds
- ✓ Server Down Issues
- ✓ Service Startup Issues
- ✓ DAC: Dedicated Admin Console
- ✓ Login Failure Issues
- ✓ SQL CMD : Secondary Logins

Ch 34: SQL DBA Project - 1

- ✓ Routine DBA Activities
- ✓ Emergency DBA Activities
- ✓ Maintenance DBA Activities
- ✓ SLA – OLA Process

- ✓ Ticketing Tools
- ✓ 3rd Party Tools
- ✓ Common Errors & Solutions

Ch 35: SQL DBA Project - 2

- ✓ Login Failure Errors
- ✓ Slow Database Issues
- ✓ Network Errors
- ✓ Security Strategies
- ✓ HA DR Strategies
- ✓ Common Error Codes
- ✓ Need for Azure Cloud

Module 3: Realtime Project 1

Enterprise SQL Server Database Administration Project (On-Premises)

Domain: E-Commerce / Retail

Environment

- Windows Server
- SQL Server 2022 Enterprise
- Routine SQL DBA Activities
- Maintenance DBA Activities
- Performance Tuning
- Troubleshooting

Module 4: Azure SQL DBA with AI

Ch 36: Cloud Basics, Azure Funda

- ✓ Cloud Fundamentals
- ✓ Cloud Concepts, Benefits
- ✓ IaaS, PaaS, SaaS Cloud Types
- ✓ Azure Cloud Concepts
- ✓ Azure Resources & Usage
- ✓ Azure Services & Purpose
- ✓ Azure Account & Subscription

Ch 37: Azure SQL Deployments

- ✓ Azure SQL Services
- ✓ Azure SQL Server Creation
- ✓ Azure SQL Databases
- ✓ Azure Firewall : Rules
- ✓ Test Connections from SSMS
- ✓ SSMS Tool : Test Connections
- ✓ ADS Tool : Installation, use

Ch 38: Azure SQL DB Licensing

- ✓ Azure SQL DB Licensing
- ✓ Per Database Licensing

- ✓ DTUs: Basic, Standard Types
- ✓ VPU and Plan Types
- ✓ DTU Versus VPU Licensing
- ✓ Elastic DTUs (eDTU) Usage
- ✓ Elastic Query Processing

Ch 39: Azure SQL DB Migrations

- ✓ SQL DB Migration Options
- ✓ Data Migration Assistant: DMA
- ✓ DMA Tool, Migration Options
- ✓ On-Premises DB Export
- ✓ Azure SQL Database Import
- ✓ Azure Storage Account

Ch 40: Azure SQL DB Metrics

- ✓ Azure SQL DB Metrics
- ✓ CPU, Memory, Log Metrics
- ✓ Data File Metrics, Alerts
- ✓ Action Groups & Emails
- ✓ Query Performance Insight
- ✓ Automated Tuning Options
- ✓ Query Recommendations

Ch 41: Azure SQL DB Tuning, AI

- ✓ Server Level Tuning
- ✓ Database Level Tuning
- ✓ Built-In Intelligence
- ✓ AI Search Service, Tuning
- ✓ AI Indexes, Practical Use
- ✓ Watermark Columns

Ch 42: Azure Backups, Restores

- ✓ Azure SQL DB Backups
- ✓ Backup Retention Options
- ✓ LTR Backups, Log Backups
- ✓ Automated Backups
- ✓ LTR, PITR Restores
- ✓ Backup Versus Export
- ✓ Restore Versus Import

Ch 43: HA DR @ Replication

- ✓ Azure HA DR Mechanisms
- ✓ Geo Replication
- ✓ Primary & Secondary
- ✓ Manual Failover
- ✓ Automated Failover
- ✓ DMVs For Replication

- ✓ Testing Read Only Databases

Ch 44: HA DR @ Server Failover

- ✓ Multi Database Replication
- ✓ Configure Server HADR
- ✓ Adding Replica Databases
- ✓ Replica DB: Capacity
- ✓ Replica DB: Status
- ✓ Automated Failover

Ch 45: Azure Security

- ✓ Logins & Users in Azure
- ✓ Grant, With Grant
- ✓ Dynamic RLS
- ✓ Dynamic Data Masking
- ✓ Implementing RBAC
- ✓ MFA Authentication

Ch 46: Azure Virtual Machine

- ✓ Azure IaaS Implementation
- ✓ Configure Disk, Network
- ✓ Configure SQL Security
- ✓ CPU, Processor & IO
- ✓ IP & RDP Connections
- ✓ Migrating SQL 2025 to VM

Ch 47: Azure VM Clusters

- ✓ Azure Active Directory
- ✓ Azure AD DS Services
- ✓ Azure Networking Options
- ✓ Listeners and Realtime Use
- ✓ FSW: File Share Witness

Ch 48: SQL Clusters, Always-On

- ✓ Creating SQL Clusters
- ✓ Configure Always-On
- ✓ Testing, Using Always-On
- ✓ AOAG Implementation
- ✓ AOAG Monitoring
- ✓ Comparing Paas & IaaS

Ch 49: PowerShell

- ✓ Azure PowerShell
- ✓ Az and get Commands
- ✓ Creating Resources
- ✓ Lists & Validations
- ✓ Firewall Config
- ✓ Resource Cleanups

Ch 50: Azure Managed Instance

- ✓ Azure MI Implementation
- ✓ Network Entities for MI
- ✓ Cloud Azure MI Access
- ✓ Azure MI Implementation
- ✓ Azure MI Migrations

Module 5: Realtime Project – 2

Enterprise SQL Server Database Administration Project (Azure Cloud)

Domain: E-Commerce / Retail

Environment

- Routine SQL DBA Activities
- Maintenance DBA Activities
- Performance Tuning
- Troubleshooting
- Azure Cloud Migrations
- Azure Cloud Management
- Azure Cloud (IaaS) Clusters
- Always-On

Module 6: DP-300 Exam Guidance

- 👉 📁 Realtime Project For your Resume: End to End Project
- 👉 📁 CoPilot Integrations For DB Administration
- 👉 📁 Resume Guidance (1:1)
- 👉 📁 Mock Interview, DP 300 Exam Guidance

SQL DBA WITH **AZURE & AI**

THANK YOU!

for choosing SQL School

We appreciate your trust in us. We are excited to be part of your learning journey and help you build a successful career as a **SQL DBA with Azure & AI Expert.**



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THANK YOU ONCE AGAIN! We wish you a rewarding learning experience and a successful career ahead.

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